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| Application/ | Control | l No. |
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10/622,580

Examiner

Deandra M. Hughes

Applicant(s)/Patent under Reexamination

SUGAYA ET AL.

Art Unit

3663

| <b>4</b> | Rejected |
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| 1        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| N | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
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|              |          |  | L            |          |               |                | J  |          | ш             |          |          |        |                    | -       |          |                 | J        |                 |           |               |          |  | )          |  |               | _         |
|--------------|----------|--|--------------|----------|---------------|----------------|--|----------|---------------|----------|----------|--------|--------------------|---------|----------|-----------------|----------|-----------------|-----------|---------------|----------|--|------------|--|---------------|-----------|
|              |          | 1  |              |          |               | <b>-</b>       |  |          |               | _        |          | No.    |                    |         |          |                 | 201      |                 |           |               | ٦ .      |  | aim        |  |               |           |
| Cla          | aim      | ╀  | _            | _        | <del></del> - | Date           | =  |          | $\overline{}$ |          | Η,       | Claim  | <del>'   -</del>   | Τ.      | т-       | <u> </u>        | Date     | <del>)</del>    | т         | -             | -        | Ui   | aim        |  | $\overline{}$ | _         |
| l            | <u>a</u> | िष्ठ   |              |          |               | l              |  |          |               |          | 1 -      | .   3  | ਰ                  |         |          |                 |          |                 |           | 1             |          |  | <u>F</u>   |  |               | -         |
| Final        | Original | 10/17/05   |              |          |               |                |  |          |               |          | Final    |        | Oligina<br>Pinglia |         |          |                 |          |                 |           |               |          | Final  | Original   |  |               |           |
| "            | Ö        | 5  |              |          |               | ŀ              | ŀ  |          |               | - 1      | "        | .   5  | 5                  |         |          |                 |          |                 |           |               |          | ш  | ŏ          |  |               |           |
| <u> </u>     |          | <del>                                     </del> | <u> </u>     | <u> </u> | -             | ┝              |  |          | Н             | $\dashv$ | $\vdash$ |        | 1                  | +       | ╁        | -               | $\vdash$ | $\vdash$        | $\dashv$  | +             | -        | <u> </u>   | 101        | $\vdash$   | +             | +         |
| <u> </u>     | 2        | -  | <b>/</b> -   | ⊢        |               | $\vdash$       | -  | _        | Н             | $\dashv$ | $\vdash$ |        | 2                  | ╁       | ┼        | -               | H        | $\vdash$        | $\dashv$  |               | -        | $\vdash$   | 102        | $\vdash$   | +             | +         |
| <del></del>  | 3        | 1  | <b>/</b>     | ⊢        | ⊢             | ┢┈             | _  | _        | Н             | $\dashv$ | <u> </u> |        | 3                  | +-      | +-       |                 | $\vdash$ | $\vdash$        | -+        | +             | ┨        | <u> </u>   | 103        | $\vdash$   | +             | +         |
| -            | 4        | 1  | <u> </u>     | -        | $\vdash$      | ├              |  |          | Н             | $\dashv$ | $\vdash$ |        | 4                  | +-      | ╁        | $\vdash$        | $\vdash$ | $\vdash$        | $\dashv$  | -+            | -        |  | 103        | $\vdash$   | +             | +         |
| -            | 5        | Ž  | ╀            | -        | -             | ⊢              |  | _        | Н             | $\dashv$ | $\vdash$ |        | 5                  | ╁       | ╁        |                 |          | $\vdash$        | ╛         | -             | -        |  | 105        | $\vdash$   |               | +         |
| -            | 6        | +  |              | $\vdash$ | -             | ļ              |  | <u> </u> | Н             | $\dashv$ | $\vdash$ |        | 6                  | +       | +        |                 | $\vdash$ | $\vdash$        | $\dashv$  | $\dashv$      | 1        | $\vdash$   | 106        | $\vdash$   | ┰             | +         |
| -            | 7        | Y  | ┣-           | -        | ┢             | ┢              | -  | $\vdash$ | Н             | $\dashv$ | -        |        | 7                  | +       | ╁╌       | -               |          | $\vdash$        | $\dashv$  | $\dashv$      | ┨        | <del>                                     </del> | 107        | $\vdash$   | ╁             | +         |
| -            | 8        | J  | _            | $\vdash$ | $\vdash$      | ├─             |  | $\vdash$ | Н             | $\dashv$ | $\vdash$ |        | 8                  | +-      | ╁╌       |                 |          | $\vdash$        | 十         |               | -        |  | 108        |  | +             | +         |
| _            | 9        | 1  | <b>/</b>     | $\vdash$ | $\vdash$      | ⊢              | -  |          | H             | $\dashv$ | $\vdash$ |        | 9                  | +       | ╁╌       | -               | -        | $\vdash$        | +         | +             | 1        |  | 109        |  | $\dashv$      | 十         |
| $\vdash$     | 10       | J  | -            | -        | -             | ┢              |  | _        | Н             | -        | -        |        | 0                  | +       | ╁╌       | $\vdash$        |          | $\vdash$        | $\dashv$  |               | -        |  | 110        | $\vdash$   | +             | $\dashv$  |
| <b> </b>     | 11       | V  | -            | $\vdash$ |               | $\vdash$       | <del> </del>                                     | $\vdash$ | Н             | $\dashv$ | $\vdash$ |        | 1                  | +       | t        | 1               | _        |                 | -         | $\top$        | 1        |  | 111        | _  | 十             | +         |
|              | 12       | Ž  | <b>^</b>     | $\vdash$ | _             | $\vdash$       | $\vdash$   | $\vdash$ | Н             | $\dashv$ |          |        | 2                  | +       | $\vdash$ | Т               |          | $\vdash$        | $\dashv$  | $\dashv$      | ┪        |  | 112        | $\vdash$   | 十             | $\dagger$ |
|              | 13       | N  |              |          |               | $\vdash$       |  |          | Н             | $\dashv$ |          |        | 3                  | T       | +-       |                 | Т        | $\vdash$        | 十         | $\top$        | 1        |  | 113        | $\vdash$   | 十             | $\top$    |
|              | 14       | 15   | ۲.           | $\vdash$ | Т             | $\vdash$       | <del>                                     </del> | _        | Н             | $\dashv$ |          |        | 4                  | $\top$  | T        | T               | Г        | $\sqcap$        | $\dashv$  | _             | 7        |  | 114        | $\Box$   | 十             | $\top$    |
|              | 15       | 1  | 1            | $\vdash$ | <u> </u>      | $\vdash$       | <u> </u>   | Т        | П             | $\dashv$ |          |        | 5                  | $\top$  | T        | Т               |          |                 | 7         | $\top$        | 1        |  | 115        | $\sqcap$   | 十             | $\top$    |
|              | 16       | 1  | 1            | _        |               |                |  |          |               | $\dashv$ |          |        | 6                  | 十       | T        |                 |          | $\Box$          | 寸         |               | 1        |  | 116        |  | 十             | 1         |
|              | 17       | V  | <b>/</b>     |          |               |                |  |          | П             | $\neg$   |          |        | 7                  | T       | T        |                 |          | $\Box$          | 寸         |               |          |  | 117        | $\sqcap$   | 丁             | 寸         |
|              | 18       | 1  | Г            |          | Г             | Г              |  |          |               |          |          |        | 8                  | T       | T        |                 |          |                 | 寸         | $\neg \vdash$ | 7        |  | 118        |  | $\neg$        | $\top$    |
|              | 19       |  |              |          |               |                |  |          |               | 7        |          | 6      | 9                  | 1       |          |                 |          | П               | 寸         |               | 7        |  | 119        |  | 十             | ヿ         |
|              | 20       |  |              |          |               |                |  |          |               | $\neg$   |          | 7      | 0                  | $\top$  | 1        |                 |          |                 | П         |               |          |  | 120        | П  | T             | T         |
|              | 21       |  |              |          | Π             |                |  |          |               | $\neg$   |          | 7      | 1                  | T       |          |                 |          |                 | $\exists$ | T             |          |  | 121        |  | Т             | Т         |
|              | 22       |  |              |          |               |                |  |          |               |          |          | 7      | 2                  |         | Τ        |                 |          |                 | 丁         |               | 7        |  | 122        |  | $\top$        | T         |
|              | 23       |  |              |          |               |                |  |          |               |          |          |        | 3                  |         |          |                 |          |                 |           |               |          |  | 123        | . :  |               | T         |
|              | 24       |  |              |          |               |                |  |          |               |          |          |        | 4                  |         |          |                 |          |                 |           |               |          |  | 124        |  |               | Т         |
|              | 25       |  |              |          |               |                |  |          |               |          |          | 7      | 5                  |         |          |                 |          |                 |           |               |          |  | 125        |  |               | $\Box$    |
|              | 26       |  |              |          | L             |                |  |          |               |          |          |        | 6                  |         |          |                 |          |                 |           |               |          |  | 126        |  |               |           |
|              | 27       |  |              |          |               |                |  |          |               |          |          |        | 7                  |         |          |                 |          |                 |           |               |          |  | 127        |  |               |           |
|              | 28       |  |              |          |               |                |  |          |               |          |          |        | 8                  |         |          |                 |          |                 |           |               |          |  | 128        |  |               | $\Box$    |
|              | 29       |  |              |          |               |                |  |          |               |          |          |        | 9                  |         |          |                 |          |                 |           |               |          |  | 129        |  | Ŀ             |           |
|              | 30       | <u> </u>   |              | L        |               |                |  |          |               |          | _        |        | 0                  |         | 1_       | <u> </u>        |          | Ш               | _         | $\perp$       |          |  | 130        | $\sqcup$   | $\bot$        | _         |
| <u></u>      | 31       |  |              | _        |               | L              |  |          |               | _        |          |        | 1                  |         |          | L               |          | Ш               |           |               | _        | L  | 131        |  | $\bot$        | ┙         |
| <u></u>      | 32       |  |              | <u>L</u> |               |                |  |          | Ш             | _        |          |        | 2                  |         | ↓_       |                 |          | Ш               |           |               | _        | L  | 132        | Ш  | $\perp$       | 4         |
| <u></u>      | 33       | _  | _            | <u> </u> | _             | <u> </u>       | <u> </u>   |          | Ш             |          | $\perp$  |        | 3                  |         | _        | $oxed{igspace}$ |          | Щ               | $\dashv$  | $\perp$       | _        | <u> </u>   | 133        | $\vdash \vdash$                                  | 4             | 4         |
| <u></u>      | 34       | <u> </u>   | <u> </u>     | <u></u>  | <u> </u>      | <u> </u>       | <u> </u>   |          | Ш             |          | <u> </u> |        | 4                  | $\bot$  | 1        | <u> </u>        | _        | $\sqcup$        | _         | $\bot$        | 4        | <u> </u>   | 134        | $\vdash \vdash$                                  | +             | 4         |
| <u></u>      | 35       | ┞  | _            | <u> </u> | <u> </u>      | <u> </u>       | igspace  | <u> </u> | Ш             | _        | $\vdash$ |        | 5                  | +       | ↓        | <b> </b>        | _        | $\sqcup$        | $\dashv$  | -             | 4        | <u> </u>   | 135        | $\vdash \vdash$                                  | +             | 4         |
| <u> </u>     | 36       | ↓_   | <u> </u>     | <u> </u> | <u> </u>      | <b> </b>       | <u> </u>   | <u> </u> | Ш             | _        | <u> </u> |        | 6                  | $\perp$ | _        | <u> </u>        |          | $\sqcup$        | $\dashv$  | $\perp$       | 4        | ļ  | 136        | $\vdash \vdash$                                  | +             | $\dashv$  |
| <b>├</b>     | 37       | 1  | L            | <u> </u> | <u> </u>      | ├_             | <del> </del>                                     | _        | Щ             | _        | $\vdash$ | 8      |                    | +       | +        | <b>—</b>        | L        | $\vdash \vdash$ | -         | +             | 4        | <u> </u>   | 137        | $\vdash \vdash$                                  | +             | $\dashv$  |
| <u></u>      | 38       | ↓_   | L.           | <u> </u> | <u> </u>      | ⊢              | ⊢  |          | Щ             | _        | $\vdash$ |        | 8                  | $\bot$  | 1        | <u> </u>        | <u> </u> | $\sqcup$        | _         | +             | 4        | ļ  | 138        | $\vdash \vdash$                                  | +             | +         |
| <u> </u>     | 39       | <u> </u>   | $\vdash$     |          | <u> </u>      | ⊢              | ⊢  |          | $\vdash$      | $\dashv$ | -        |        | 9                  | +       | +        | <u> </u>        | <u> </u> | $\vdash \vdash$ | _         | +             | 4        |  | 139        | $\vdash \vdash$                                  | +             | 4         |
| -            | 40       | $\vdash$   | $\vdash$     | -        | $\vdash$      | $\vdash$       | ├-   | <u> </u> | $\vdash$      |          | $\vdash$ |        | 0                  | +       | 1        | ├               | <u> </u> | $\vdash \vdash$ | $\dashv$  |               | 4        | <u> </u>   | 140        | $\vdash \vdash$                                  | +             | +         |
| -            | 41       | $\vdash$   | $\vdash$     | <u> </u> | _             | $\vdash$       | $\vdash$   | _        | Н             | $\dashv$ | -        |        | 1                  | +       | ╁        | <b>├</b>        | $\vdash$ | $\vdash \vdash$ | -+        | +             | 4        | <u> </u>   | 141        | $\vdash \vdash$                                  | +             | +         |
| <b> </b>     | 42       | -  | $\vdash$     | <u> </u> | $\vdash$      | ⊢              | ⊢  | _        | Н             | $\dashv$ | -        |        | 2                  | +       | +        | ┢               | ⊢        | $\vdash \vdash$ | $\dashv$  | +             | 4        |  | 142        | <del>                                     </del> | +             | +         |
| -            | 43       | $\vdash$   | $\vdash$     | <u> </u> | ├—            | $\vdash$       | $\vdash$   |          | $\vdash$      | $\dashv$ | $\vdash$ |        | 3                  | +       | +        | ⊢               | $\vdash$ | $\vdash$        |           | +             |          |  | 143        | $\vdash$   | +             | +         |
| <u> </u>     | 44       | +-   | ⊢            | ├-       | ├             | ├-             | ├-   | -        | $\vdash$      |          | -        |        | 4                  | +-      | +        | ⊢               | $\vdash$ | ┝╌┼             | -+        | +             | -        | <del> </del>                                     | 144        | $\vdash \vdash$                                  | +             | +         |
| <del> </del> | 45       | -  | ├            | ├—       | $\vdash$      | <del>  -</del> | ⊢  | _        | $\vdash$      | $\dashv$ | $\vdash$ |        | 5<br>6             | +       | +-       | ├-              | $\vdash$ | $\vdash$        | $\dashv$  | +             | -        | ├  | 145<br>146 | -  | +             | +         |
| -            | 46       | -  | <del> </del> | <u> </u> | ├             | ├—             | ⊢  | -        | $\vdash$      | -        | -        |        | 7                  | +-      | +-       | $\vdash$        | $\vdash$ | $\vdash \vdash$ | $\dashv$  | $\dashv$      | $\dashv$ | <u> </u>   | 146        | $\vdash$   | +             | $\dashv$  |
| -            | 47<br>48 | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$      | ├              | $\vdash$   | $\vdash$ | $\vdash$      | $\dashv$ | $\vdash$ |        | 8                  | +       | +        | +-              | -        | $\vdash \vdash$ | $\dashv$  | +             | -        | <u> </u>   | 148        |  | +             | +         |
| <b>-</b>     | 49       | $\vdash$   | $\vdash$     | $\vdash$ | ⊢             | ⊢              | $\vdash$   | $\vdash$ | $\vdash$      |          | $\vdash$ |        | 9                  | +       | +-       | ┢               | ┢        | $\vdash \vdash$ | +         | +             | -        |  | 149        | <del>   </del>                                   | +             | +         |
| $\vdash$     | 50       | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$      | $\vdash$       | $\vdash$   | $\vdash$ | -             | $\dashv$ | $\vdash$ |        | 00                 | +       | +-       | ┢┈              |          | $\vdash \vdash$ | $\dashv$  | +             | $\dashv$ | ├  | 150        | $\vdash$   | +             | +         |
| 1            | l OU     | 1  | ı            | í        | ı             | ı              | ı  | 1        | 1             |          | 1        | - 1 17 | JU                 | •       | 1        | 1               | 1        |                 | - 1       | ŀ             | ı        | ı  | 1 100      | i I  | ı             | - 1       |